Please add the following new claims:

E'

--~~25~~ 32. A method of detecting at least one of electromagnetic radiation in the optical range and nuclear radiation, comprising the steps of:

exposing a microcantilever to a source of at least one of electromagnetic radiation in the optical range and nuclear radiation, the amount of said radiation to which the microcantilever is exposed being unknown, the microcantilever having at least one physical property affected by said at least one of electromagnetic radiation in the optical range and nuclear radiation;

F

monitoring changes induced by said at least one of electromagnetic radiation in the optical range and nuclear radiation in the at least one physical property; and

correlating changes in the at least one physical property to a measure of the said at least one of electromagnetic radiation in the optical range and nuclear radiation.--

Rule 126

--~~26~~ 33. The method of Claim ~~25~~ 32, wherein said step of monitoring changes induced by said at least one of electromagnetic radiation in the optical range and nuclear radiation in the at least one physical property comprises the step of monitoring changes selected from the group consisting of a bending of said microcantilever, a shift in resonance frequency of said microcantilever, and a combination thereof--

--~~27~~ 34. An apparatus for detecting at least one of electromagnetic radiation in the optical range and nuclear radiation, comprising:

a plurality of radiation sensors having an element exposed to a source of at least one of electromagnetic radiation in the optical range and nuclear radiation, each of said plurality of sensors having at least one physical property affected by said at least one of the electromagnetic radiation in the optical range and nuclear radiation, and said plurality of sensors being arranged in a two-dimensional matrix;

means for monitoring changes induced by said at least one of electromagnetic radiation in the optical range and nuclear radiation in the at least one physical property of each of said plurality of sensors; and

means for correlating changes in the at least one physical property to a measure of the said at least one of electromagnetic radiation in the optical range and nuclear radiation.--

--~~28~~ 35. The apparatus of Claim ~~27~~ 34, wherein said means for monitoring changes induced by said at least one of electromagnetic radiation in the optical range and nuclear radiation in the at least one physical property of each of said plurality of sensors comprises means for monitoring changes selected from the group consisting of a bending of said microcantilever, a shift in resonance frequency of said microcantilever, and a combination thereof.--